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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/787,186	03/15/2001	Martin Rudolf Behringer	12406-018001	6550
26161 759	90 08/22/2006		EXAMINER	
FISH & RICHARDSON PC			CRANE, SARA W	
P.O. BOX 1022	S, MN 55440-1022		ART UNIT	PAPER NUMBER
MINNER CEIS, MIN 33 NO 1022			2811	
			DATE MAILED: 08/22/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

BI

	Application No.	Applicant(s)			
Office Action Summers	09/787,186	D9/787,186 BEHRINGER, MARTI			
Office Action Summary	Examiner	Art Unit			
	Sara W. Crane	2811			
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence ac	ddress		
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a iod will apply and will expire SIX (6) MO tute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 07	7 June 2006.				
	his action is non-final.				
3) Since this application is in condition for allow	his application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.[D. 11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 5-19 is/are pending in the applicati	on.				
4a) Of the above claim(s) is/are withd	Irawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>5-19</u> is/are rejected.					
7)☐ Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	d/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exam	iner.				
10) The drawing(s) filed on is/are: a) □ a	accepted or b) Dobjected to	by the Examiner.			
Applicant may not request that any objection to t	he drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corr	rection is required if the drawing	y(s) is objected to. See 37 C	FR 1.121(d).		
11) The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form P	TO-152.		
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
 Certified copies of the priority document 	ents have been received.				
2. Certified copies of the priority docume	ents have been received in A	Application No			
Copies of the certified copies of the p	riority documents have beer	received in this National	Stage		
application from the International Bure	eau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a l	ist of the certified copies not	received.			
Attachment(s)	∧ □	O			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date			
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date		Informal Patent Application (PT	O-152)		

Application/Control Number: 09/787,186

Art Unit: 2811

DETAILED ACTION

Claim Rejections - 35 USC § 112

Claims 5-19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The specification does not teach how to obtain sub-monolayer islands separated from one another and located in a common plane perpendicular to a growth direction. Applicant notes on the first page of the remarks of 23 January 2006 that the islands emerge on their own, with deposition of fractional monolayer coverage of ZnTe on a closed layer of ZnSe. Applicant then states on the second page of the remarks that the deposition with fractional monolayer coverage in the Oiu invention of 12, column 13, lines 34-65, would not give rise to separate islands, even though the materials are the same as in Applicant's invention. The statements seem contradictory. If the islands emerge on their own in Applicant's invention, then they would emerge on their own in the Oiu layers as well. If the islands do not emerge on their own, simply with fractional layer deposition, then some teaching is necessary to explain how to obtain the separated islands.

Claim Rejections - 35 USC § 103

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The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 5-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oiu et al.

See reasons of record in the Office action of 19 July 2005.

As noted above, the fractional monolayer deposition as taught in the Oiu reference would appear to inherently give rise to the same structure as in Applicant's invention, if the layer materials are the same, because the same lattice mismatch relied upon by Applicant to form multiple islands as recited would be occurring in the Oiu layers as well, because the materials are the same.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (571) 272-1652.

The supervisor for Art Unit 2811, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sara W. Crane Primary Examiner

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